What is claimed is:

- A method of modulating phosphate homeostasis in a subject comprising altering the 1. activity of a polypeptide encoded by the FRP-4 gene within the subject.
- The method of claim 1, wherein phosphate homeostasis is modulate by delivering to 2. 5 the subject an effective amount of an agent that alters the activity of a polypeptide encoded by the FRP-4 gene.
 - A method of modulating phosphate homeostasis in a subject comprising altering the 3. expression of a polynucleotide encoding FRP-4 polypeptide within the subject.
 - A method for modulating renal phosphate transport in a subject, comprising delivering to the subject an effective amount of an agent that alters the activity of a polypeptide encoded by the FRP-4 gene.

A method of reducing phosphate re-absorption in a subject comprising delivering to the subject an effective amount of the FRP-4 protein.

A method of reducing phosphate re-absorption in a subject comprising delivering to the subject an effective amount of a polynucleotide encoding the FRP-4 protein.

A method of screening for candidate therapeutic agents that modulate the expression of the FRP-4 gene comprising contacting a target cell with a test agent and monitoring expression of the FRP-4 gene, wherein a test agent which modifies the expression of the FRP-4 gene is a candidate therapeutic agent.

- The method of claim 7, wherein the candidate agent is a biological or chemical 8. compound selected from the group consisting a polypeptide, a polynucleotide, a ribozyme, and a small organic molecule.
- A method of screening for candidate agents capable of altering the biological activity of a polypeptide encoded by the FRP-4 gene, comprising contacting a target 25

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cell expressing a FRP-4 polypeptide with a test agent and monitoring activity of the expressed polypeptide product, wherein a test agent which modifies the activity of the polypeptide is a candidate agent.

- 10. The method of claim 9, wherein the candidate agent is a biological or chemical compound selected from the group consisting of a polypeptide, a polynucleotide, a ribozyme, or a small organic molecule.
- A method of screening for candidate agents that modulate the activity of the FRP-4 protein comprising contacting a target cell with a candidate agent and monitoring the activity of the FRP-4 protein, wherein a candidate agent which modifies the activity of the FRP-4 protein is a candidate therapeutic agent.
- 12. The method of claim 11, wherein the candidate agent is a biological or chemical compound selected from the group consisting of a polypeptide, a polynucleotide, a ribozyme, or a small organic molecule.
- A method of screening for candidate ligand that modulate the activity of the FRP-4 protein comprising contacting a target cell with a candidate agent and monitoring the activity of the FRP-4 protein, wherein a candidate agent which modifies the activity of the FRP-4 protein is a candidate ligand.
- The method of claim 13, wherein the candidate agent is a biological or chemical compound selected from the group consisting of a polypeptide, a polynucleotide, a ribozyme, or a small organic molecule.